

Experimental Lake Erie Harmful Algal Bloom Bulletin

01 September, 2016, Bulletin 16

The cyanobacterial (*Microcystis*) bloom has diminished this week in all areas of western Lake Erie. Moderate concentrations are present in and near Maumee Bay. Some patches of low concentration are present northeast of West Sister Island and east of Pelee Point away from shore. Toxin concentrations have also decreased, and were found at levels well below recreational risk thresholds, including in Maumee Bay.

Strong mixing today, with winds and mixing gradually diminishing through the weekend. A decrease in bloom intensity in late August is unusual. This is the best condition going into Labor Day weekend since 2012.

The persistent cyanobacteria bloom continues in Sandusky Bay. No other blooms have been detected in the central basin or the eastern basin.

Please check Ohio EPA's site on harmful algal blooms for safety information. http://epa.ohio.gov/habalgae.aspx Be careful boating. --Stumpf, Dupuy

The images below are "GeoPDF". To see the longitude and latitude under your cursor, select "Tools > Analyze > Geospatial Location

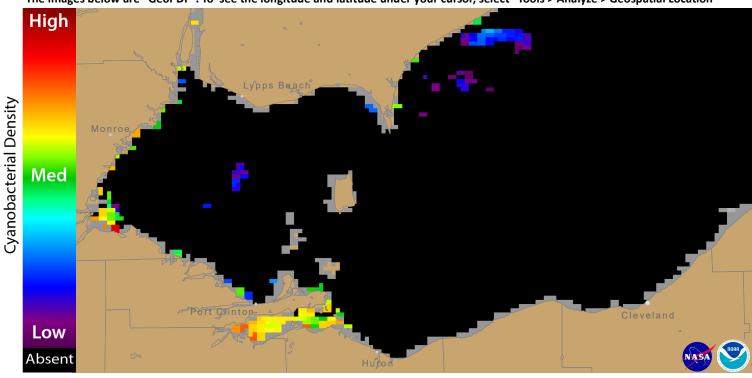


Figure 1. Cyanobacterial Index from NASA's MODIS-Aqua data collected 29 August, 2016 at 13:31 EST. Grey indicates clouds or missing data. The estimated threshold for cyanobacteria detection is 20,000 cells/mL.

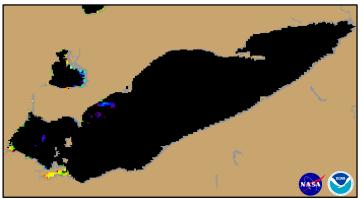
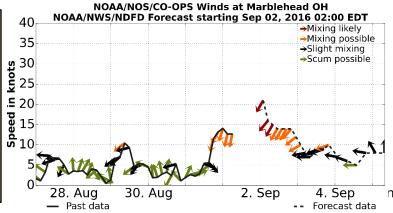


Figure 2. Cyanobacterial Index from NASA's MODIS-Aqua data collected 29 August, 2016 at 13:31.



Wind speed and direction from Marblehead, OH. Blooms mix through the water column at wind speeds greater than 15 knots (or 7.7 m/s).

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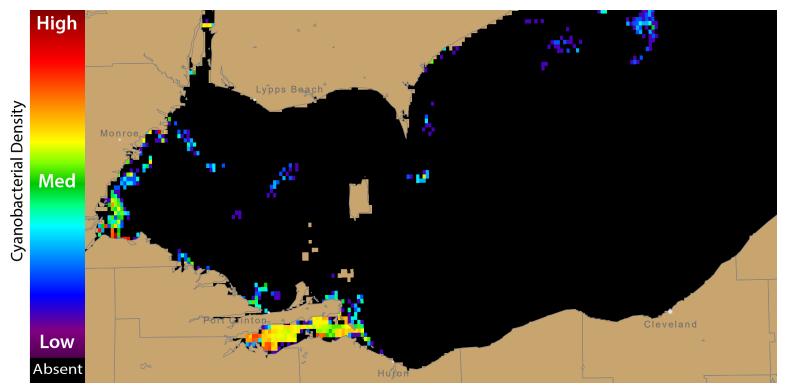


Figure 3. Nowcast position of bloom for 01 September, 2016 using GLFS modelled currents to move the bloom from the 29 August, 2016

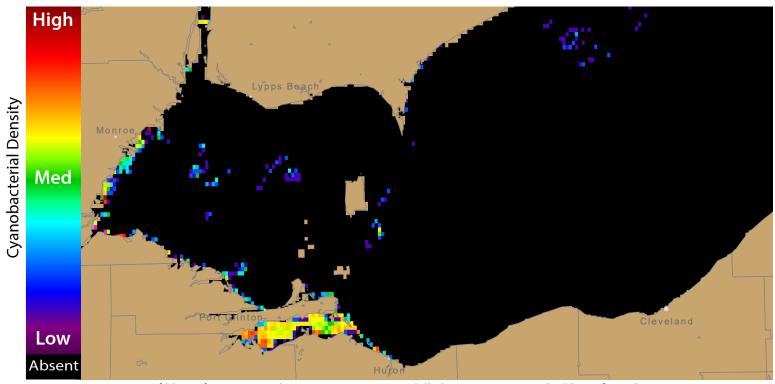
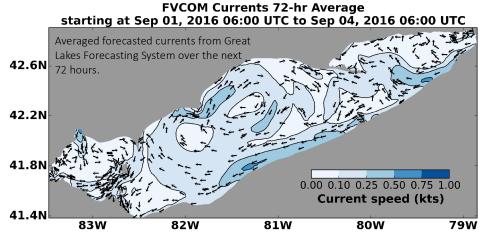


Figure 4. Forecast position of bloom for 04 September, 2016 using GLFS modelled currents to move the bloom from the 29 August, 2016



Produced with Information from NOAA's: National Centers for Coastal Ocean Science Great Lakes Environmental Research Laboratory National Weather Service, Cleveland Center for Operational Oceanographic Products and Services

Additional information from: Great Lakes Observing System Ohio Environmental Protection Agency

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